

OriGene Technologies, Inc.

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Product datasheet for RC201798

Proteasome beta 1 (PSMB1) (NM_002793) Human Tagged ORF Clone

Product data:

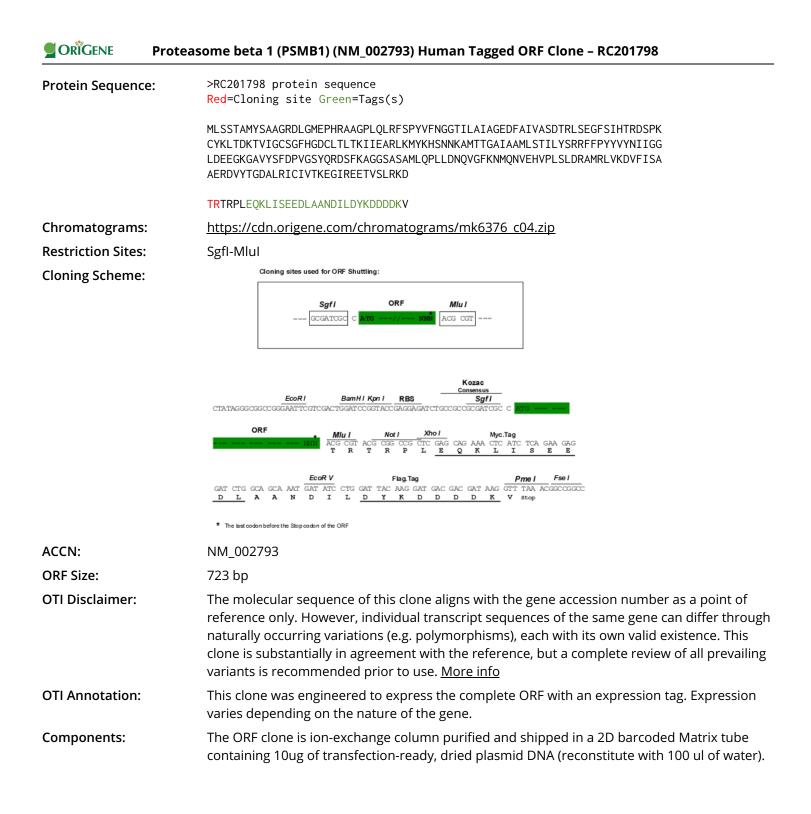
Product Type:	Expression Plasmids	
Product Name:	Proteasome beta 1 (PSMB1) (NM_002793) Human Tagged ORF Clone	
Tag:	Myc-DDK	
Symbol:	Proteasome beta 1	
Synonyms:	HC5; PMSB1; PSC5	
Mammalian Cell Selection:	Neomycin	
Vector:	pCMV6-Entry (PS100001)	
E. coli Selection:	Kanamycin (25 ug/mL)	
ORF Nucleotide Sequence:	<pre>>RC201798 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>	
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C	

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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Proteasome beta 1 (PSMB1) (NM_002793) Human Tagged ORF Clone – RC201798

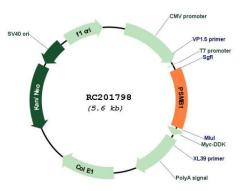
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. 	
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.	
RefSeq:	<u>NM 002793.4</u>	
RefSeq Size:	938 bp	
RefSeq ORF:	726 bp	
Locus ID:	5689	
UniProt ID:	<u>P20618</u>	
Cytogenetics:	6q27	
Domains:	proteasome	
Protein Families:	rotein Families: Protease	
Protein Pathways:	Proteasome	
MW:	26.5 kDa	
Gene Summary:	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a	

ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is tightly linked to the TBP (TATA-binding protein) gene in human and in mouse, and is transcribed in the opposite orientation in both species. [provided by RefSeq, Jul 2008]

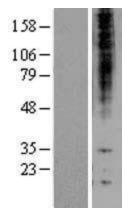
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Product images:



Circular map for RC201798



Western blot validation of overexpression lysate (Cat# [LY419103]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201798 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified PSMB1 protein (Cat# [TP301798]). The protein was produced from HEK293T cells transfected with PSMB1 cDNA clone (Cat# RC201798) using MegaTran 2.0 (Cat# [TT210002]).

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